

CCGGTACCGG nAlaMetAla GGCCATGGCC TCACGTAAAA AGGGTATCTA GAATTATGAT GATTACTCTG CGCAAACTTC CTCTGGCGGT TGCCGTCGCA GCGGGCGTAA TGTCTGCTCA CGCCCGCATT ACAGACGAGT MetMe tileThrLeu ArgLysLeuP roLeuAlaVa lAlaValAla AlaGlyValM etSerAlaGl CTAATGAGAC GCGTTTGAAG GAGACCGCCA ACGGCAGCGT Start of lamB signal sequence AGTGCATTTT TCCCATAGAT CTTAATACTA

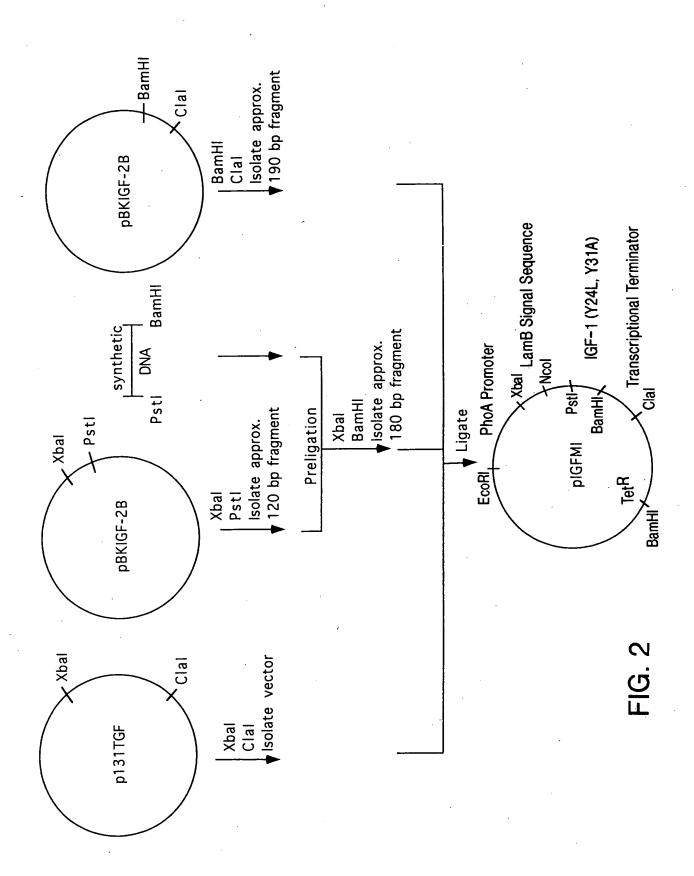
AlaGlySerSer CGACCTAGGA GGICCCGAAA CICIGIGGG IGCIGAACIG GIIGACGCIC IGCAGIICGI AIGIGGIGAI CGAGGCIICC IGIICAACAA ACCGACIGGG GCIGGAIÇCI GAGACACGCC ACGACTTGAC CAACTGCGAG ACGTCAAGCA TACACCACTA GCTCCGAAGG ACAAGTTGTT TGGCTGACCC yAlaGluLeu ValAspAlaL euGlnPheVa lCysGlyAsp ArgGlyPheL euPheAsnLy sProThrGly IGF-I (Y24L, Y31A) hrLeuCysGl CCAGGGCTTT GlyProGluT

euLysProAla ACTTTGGGCG TECTCCCCAG ACTGGTATTG TTGACGAATG CTGCTTTCGT TCTTGCGACC TGCGTCGTCT GGAAATGTAT TGCGCTCCCC TGAAACCCGC ACGAGGGGTC TGACCATAAC AACTGCTTAC GACGAAAGCA AGAACGCTGG ACGCAGCAGA CCTTTACATA ACGCGAGGGG euArgArgLe uGluMetTyr CysAlaProL SerCysAspL sCysPheArg alAspGluCy gAlaProGln ThrGlyIleV CCTCTCGTCG GGAGAGCAGC

TAAATCTGCT TAGAAGCTCC TAACGCTCGG TTGCCGCCGG GCGTTTTTTA TTGTTAACTC ATGTTTGACA GCTTATCATC GATAAGCTTT AATGCGGTAG TTACGCCATC ATTIAGACGA ATCITCGAGG ATTGCGAGCC AACGGCGGCC CGCAAAAAT AACAATTGAG TACAAACTGT CGAATAGTAG CTATTCGAAA LysSerAla Am*

Nucleotide and Amino Acid Seguence of the LamB Signal Seguence and IGF-I (Y24L,Y31A)

FIG 1



A STATE OF S

AGAGTCGAAT CITAAGITGA AGAGGIATGA AACCTAITCC ITTAIGICIG TACTITITAG AGTAACGACI CAACAATAAA ITCGAACGGG ITTITCTICI ICTCAGCITA AAAAAGAAGA AAGCTTGCCC GTTGTTATTT GAATTCAACT TCTCCATACT TTGGATAAGG AAATACAGAC ATGAAAAATC TCATTGCTGA

Ð

- CAGGTAGAGG CAACTAACTA GTCCATCTCC GTTGATTGAT GACGTTACGA AGCGTTATAC CGCGTTTTAC TGGTTGTCGC ACCAACAGCG GCGCAAAATG TCGCAATATG CTGCAATGCT AGCITIGGAG ATTAICGICA CTTGACACAC GCGTCCATCT TCGAAACCTC TAATAGCAGT CGCAGGTAGA GAACTGTGTG 101
- CTCGTCAGTA GAGCAGTCAT CTCGACGACG CGCTAATGCA TTTCTTCAAT AACTTCGTAG TTGAAGCATC AAAGAAGTTA GCGATTACGT CGACGATACG GAGCTGCTGC GCTGCTATGC GCATTCCTGA CCCGCGACAT GCTCCATTTC GGGCTACGGT CGTAAGGACT CCCGATGCCA CGAGGTAAAG GGGCGCTGTA 201
- GTACGCAAGT CATGCGTTCA TTTTCAATTA GAAAAGTTGT CGACAGTATT TCAACAGTGC CGGCTCTGAA TATCAGCGAA ACAAAAATAA AAAATTACAT AAACATTGAT TTTGTAACTA TTTTAATGTA TGTTTTTTT GCCGAGACTT ATAGTCGCTT GCTGTCATAA AGTTGTCACG CTTTTCAACA AAAAGTTAAT 301
- CCGGTACCGG nAlaMetAla GGCCATGGCC ACAGACGAGT tileThrLeu ArgLysLeuP roLeuAlaVa lAlaValAla AlaGlyValM etSerAlaGl TGTCTGCTCA TGCCGTCGCA GCGGGCGTAA CGCCCGCATT ACGGCAGCGT GATTACTCTG CGCAAACTTC CTCTGGCGGT GAGACCGCCA GCGTTTGAAG CTAATGAGAC MetMe GAATTATGAT AGTGCATITI TCCCATAGAT CTTAATACTA AGGGTATCTA TCACGTAAAA 401
- euGlnPheVa lCysGlyAsp ArgGlyPheL euPheAsnLy sProThrGly AlaGlySerSer CGACCTAGGA GCTGGATCCT TGTTCAACAA ACCGACTGGG TGGCTGACCC ACAAGTTGTT GCTCCGAAGG CGAGGCTTCC ATGTGGTGAT TACACCACTA TGCAGTTCGT CAACTGCGAG ACGTCAAGCA GTTGACGCTC yAlaGluLeu ValAspAlaL TGCTGAACTG GAGACACGCC ACGACTTGAC CTCTGTGCGG hrLeuCysGl CCAGGGCTTT GGTCCCGAAA GlyProGluT 501
- euLysProAla GGAAATGTAT TGCGCTCCCC TGAAACCCGC sCysPheArg SerCysAspL euArgArgLe uGluMetTyr CysAlaProL CCTTTACATA ACGCGAGGGG TCTTGCGACC TGCGTCGTCT GACGAAAGCA AGAACGCIGG ACGCAGCAGA CTGCTTTCGT gAlaProGln ThrGlyIleV alAspGluCy TTGACGAATG AACTGCTTAC ACTGGTATTG TGACCATAAC TGCTCCCCAG ACGAGGGGTC CCTCTCGTCG GGAGAGCAGC SerArgAr 601 9
- GATAAGCTTT CTATTCGAAA GCTTATCATC CGAATAGTAG GCGTTTTTTA TTGTTAACTC ATGTTTGACA ATCTTCGAGG ATTGCGAGCC AACGGCGGCC CGCAAAAAT AACAATTGAG TACAAACTGT TIGCCGCCGG TAGAAGCTCC TAACGCTCGG ATTTAGACGA TAAATCTGCT 701

LysSerAla

93

- CCGTGGCACA TACTTTAGAT TGTTACGCGA GTAGCAGTAG GAGCCGTGGC AGTGGGACCT ACGACATCCG TCACCCTGGA CTCGGCACCG CATCGTCATC ACAATGCGCT ATGAAATCTA GGCACCGTGT AACGCAGTCA AATTTAACGA TTGCGTCAGT TTAAATTGCT AAATAGTGTC TTTATCACAG 801
- GATATACGCA TGATACCGCA CGACGATCGC GCTGCTAGCG ACTATGGCGT GAGAACGCCC TATAGCAGGT AAGGCTGTCG TAGCGGTCAG ATCGCCAGTC TTCCGACAGC ATATCGTCCA CTCTTGCGGG ACTGCCGGGC AATACGGCCA TGACGGCCCG TTATGCCGGT TATCCGAACC ATAGGCTTGG 901
- GATAGCTGAT GAACCTCGGT CTTGGAGCCA GTCAGGACGA GCGAAGCGAT CGCTTCGCTA CAGTCCTGCT GAGCACTGTC CGACCGCTTT GGCCGCCGCC CTCGTGACAG GCTGGCGAAA CCGGCGGCGG CCCGTTCTCG GGGCAAGAGC TCTATGCGCA AGATACGCGT ACTACGTTAA TGATGCAATT 1001

1101	CGCGATCATG GCGCTAGTAC	GCGACCACAC	CCGTCCTGTG GGCAGGACAC	GATCCTCTAC CTAGGAGATG	GCCGGACGCA CGGCCTGCGT	TCGTGGCCGG AGCACCGGCC	carcacceec gràgregece	GCCACAGGTG CGGTGTCCAC	CGGTTGCTGG GCCAACGACC	CGCCTATATC GCGGATATAG
1201	GCCGACATCA CGGCTGTAGT	CCGATGGGGA GGCTACCCCT	AGATCGGGCT TCTAGCCCGA	CGCCACTTCG GCGGTGAAGC	GGCTCATGAG CCGAGTACTC	CGCTTGTTTC GCGAACAAAG	GGCGTGGGTA CCGCACCCAT	TGGTGGCAGG ACCACCGTCC	CCCCGTGGCC	GGGGGACTGT CCCCCTGACA
1301	TGGGCGCCAT ACCCGCGGTA	CTCCTTGCAT GAGGAACGTA	CTCCTTGCAT GCACCATTCC GAGGAACGTA CGTGGTAAGG	TTGCGGCGGC AACGCCGCCG	GGTGCTCAAC CCACGAGTTG	GGCCTCAACC CCGGAGTTGG	TACTACTGGG ATGATGACCC	CTGCTTCCTA GACGAAGGAT	ATGCAGGAGT TACGTCCTCA	CGCATAAGGG GCGTATTCCC
1401	AGAGCGTCGA TCTCGCAGCT	CCGATGCCCT GGCTACGGGA	CCGATGCCCT TGAGAGCCTT GGCTACGGGA ACTCTCGGAA	CAACCCAGTC GTTGGGTCAG	AGCTCCTTCC TCGAGGAAGG	GGTGGGCGCG	GGGCATGACT CCCGTACTGA	ATCGTCGCCG TAGCAGCGGC	CACTTATGAC GTGAATACTG	TGTCTTCTTT ACAGAAGAAA
1501	ATCATGCAAC TAGTACGTTG	TCGTAGGACA AGCATCCTGT	TCGTAGGACA GGTGCCGGCA AGCATCCTGT CCACGGCCGT	GCGCTCTGGG CGCGAGACCC	TCATTTTCGG AGTAAAAGCC	CGAGGACCGC GCTCCTGGCG	TTTCGCTGGA AAAGCGACCT	GCGCGACGAT	GATCGGCCTG	TCGCTTGCGG
1601	TATTCGGAAT	CTTGCACGCC GAACGTGCGG	CTTGCACGCC CTCGCTCAAGGAACGAGCTCC	CCTTCGTCAC GGAAGCAGTG	TGGTCCCGCC	ACCAAACGTT TGGTTTGCAA	TCGGCGAGAA AGCCGCTCTT	GCAGGCCATT CGTCCGGTAA	ATCGCCGGCA TAGCGGCCGT	TGGCGGCCGA
1701	CGCGCTGGGC		TACGTCTTGC TGGCGTTCGC ATGCAGAACG ACCGCAAGCG	GACGCGAGGC CTGCGCTCCG	TGGATGGCCT ACCTACCGGA	TCCCCATTAT AGGGGTAATA	GATTCTTCTC CTAAGAAGAG	GCTTCCGGCG	GCATCGGGAT	GCCCGCGTTG CGGGCGCAAC
1801	. CAGGCCATGC GTCCGGTACG	TGTCCAGGCA GGTAGATGA ACAGGTCCGT CCATCTACT	GGTAGATGAC	GACCATCAGG CTGGTAGTCC	GACAGCTTCA CTGTCGAAGT	AGGATCGCTC TCCTAGCGAG	GCGGCTCTTA	CCAGCCTAAC GGTCGGATTG	TTCGATCACT AAGCTAGTGA	GGACCGCTGA CCTGGCGACT
1901	. TCGTCACGGC AGCAGTGCCG	GATTTATGCC CTAAATACGG	cecreegesa	GCACATGGAA CGTGTACCTT	CGGGTTGGCA GCCCAACCGT	TGGATTGTAG	GCGCCGCCCT	ATACCTTGTC TATGGAACAG	TGCCTCCCCG	CGTTGCGTCG GCAACGCAGC
2001	. CGGTGCATGG GCCACGTÁCC		AGCCGGGCCA CCTCGACCTG TCGGCCCGGT GGAGCTGGAC	AATGGAAGCC TTACCTTCGG	GGCGGCACCT CCGCCGTGGA	CGCTAACGGA GCGATTGCCT	TTCACCACTC AAGTGGTGAG	CAAGAATTGG GTTCTTAACC	AGCCAATCAA TCGGTTAGTT	TTCTTGCGGA AAGAACGCCT
2101	. GAACTGTGAA CTTGACACTT		TGCGCAAACC AACCCTTGGC ACGCGTTTGG TTGGGAACCG	AGAACATATC TCTTGTATAG	CATCGCGTCC GTAGCGCAGG	GCCATCTCCA CGGTAGAGGT	GCAGCCGCAC	GCGCCCATC	TCGGGCAGCG AGCCCGTCGC	TTGGGTCCTG AACCCAGGAC
2201	GCCACGGGTG		CGCATGATCG TGCTCCTGTC GCGTACTAGC ACGAGGACAG	GTTGAGGACC CAACTCCTGG	CGGCTAGGCT GCCGATCCGA	GGCGGGGTTG	CCTTACTGGT GGAATGACCA	TAGCAGAATG ATCGTCTTAC	AATCACCGAT TTAGTGGCTA	ACGCGAGCGA TGCGCTCGCT
2301	L ACGTGAAGCG TGCACTTCGC		ACTGCTGCTG CAAAACGTCT TGACGACGAC GTTTTGCAGA	GCGACCTGAG CGCTGGACTC	CAACAACATG GTTGTTGTAC	AATGGTCTTC TTACCAGAAG	GGTTTCCGTG CCAAAGGCAC	TTTCGTAAAG AAAGCATTTC	TCTGGAAACG AGACCTTTGC	CGGAAGTCAG GCCTTCAGTC
2401	CGCCCTGCAC GCGGGACGTG		CATTATGTTC CGGATCTGCA GTAATACAAG GCCTAGACGT	TCGCAGGATG AGCGTCCTAC	CTGCTGGCTA GACGACCGAT	CCCTGTGGAA GGGACACCTT	CACCTACATC GTGGATGTAG	TGTATTAACG ACATAATTGC	AAGCGCTGGC TTCGCGACCG	ATTGACCCTG TAACTGGGAC

ť

FIG. 3B

GGGAAAGCAG AAGTT

CCCTTTCGTC

5101

AAAATAAACA

TGTATTTAGA

TATTGTCTCA TGAGCGGATA CATATTTGAA

GCCTTTACAA

TTTTCCCTTA TTCCCGCTGT

CGGAAATGTT

AAGGGCGACA

GAGCAAAAAC AGGAAGGCAA AATGCCGCAA AAAAGGGAAT

TTACGGCGTT

GTAGAAAATG AAAGTGGTCG CAAAGACCCA CTCGTTTTTG TCCTTCCGTT

GTTTCTGGGT

TTTCACCAGC

CATCTTTAC

TGATCTTCAG

4801

ACTAGAAGTC

LTTCACGAG

TATCACGAGG

ITTGGTAATA ATAGTACTGT AATTGGATAT ITTTATCCGC ATAGTGCTCC

CCGCGCACAT TICCCCGAAA AGTGCCACCT GACGICTAAG AAACCATTAI TAICATGACA TIAACCTATA AAAATAGGCG GGCGCGTGIA AAGGGGCTII ICACGGTGGA CIGCAGAIIC ITIGGIAATA AIAGIACTGI AAIIGGATAI ITITAICCGC

TGAGAAGGAA AAAGTTATAA TAACTTCGTA AATAGTCCCA ATAACAGAGT ACTCGCCTAT GTATAAACTT ACATAAATCT

TTATCAGGGT

ATTGAAGCAT

TTTCAATATT

ACTCTTCCTT

GAATACTCAT CTTATGAGTA

4901

AATAGGGGTT TTATCCCCAA

5001

IGF-1 KIRA in Human MCF-7 Cells Comparison of IGF-1 and Mutant IGF-1

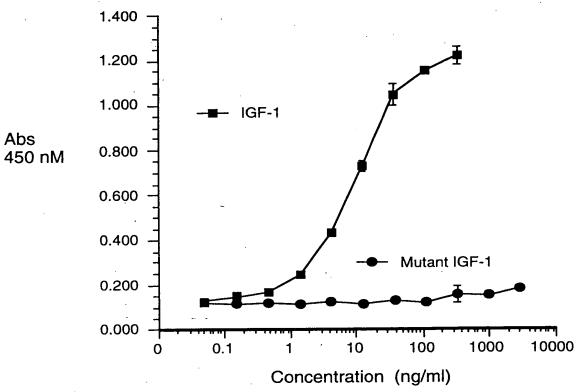
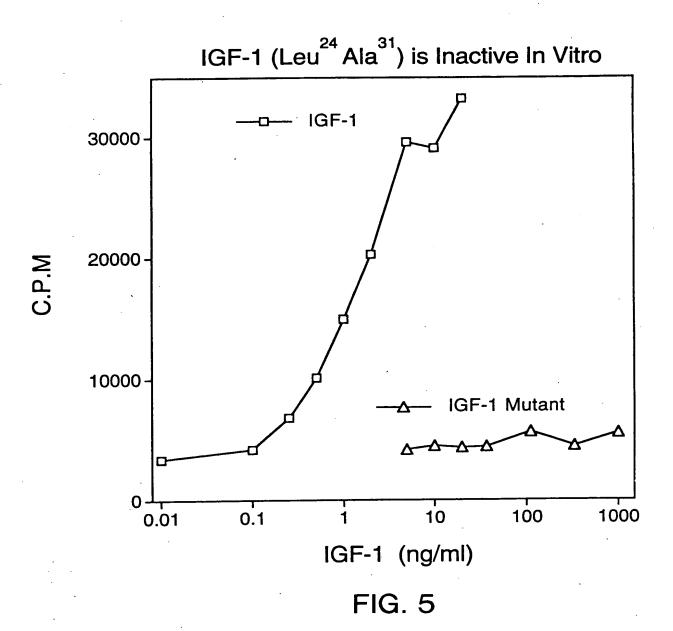


FIG. 4



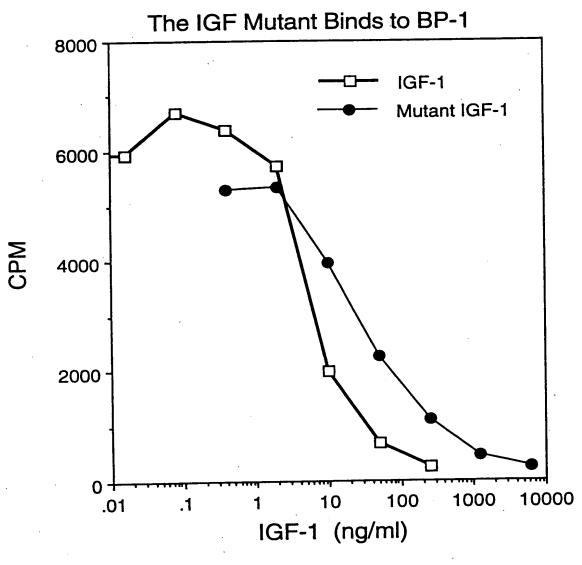
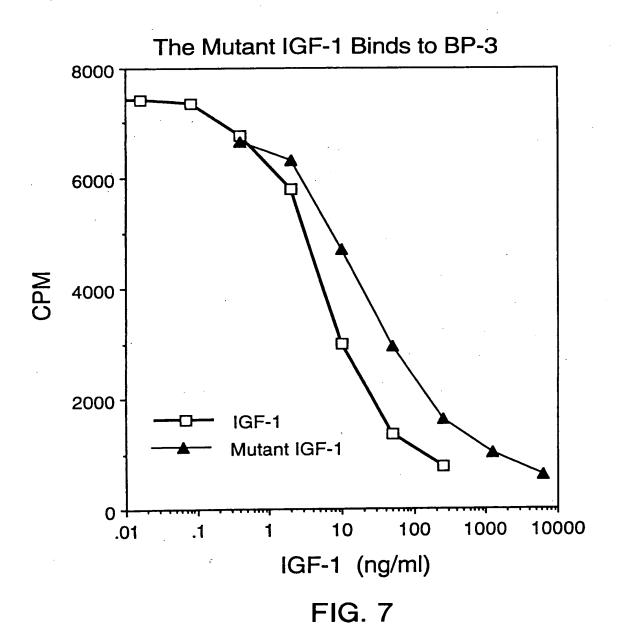
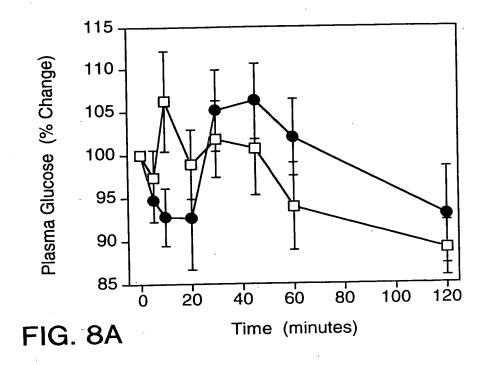
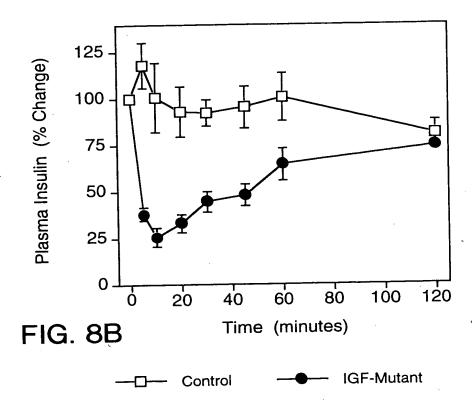


FIG. 6







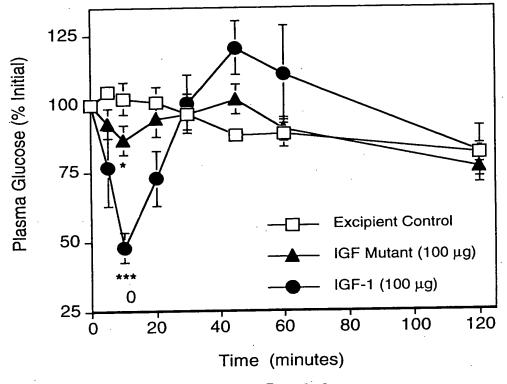


FIG. 9A

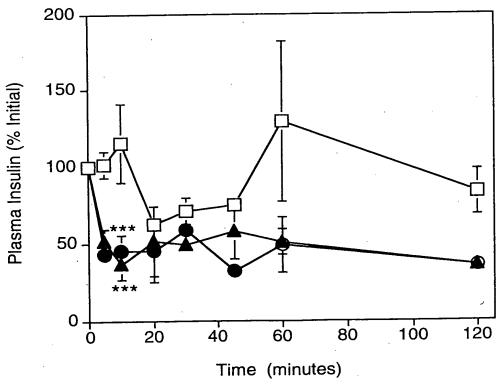


FIG. 9B

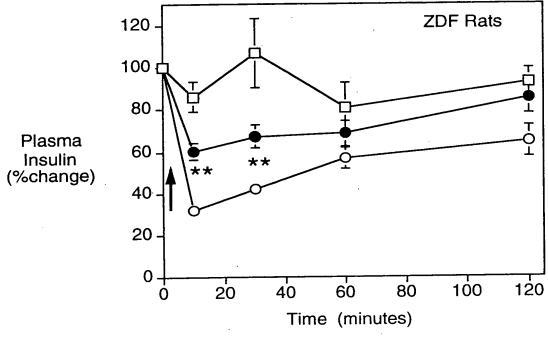


FIG. 10A

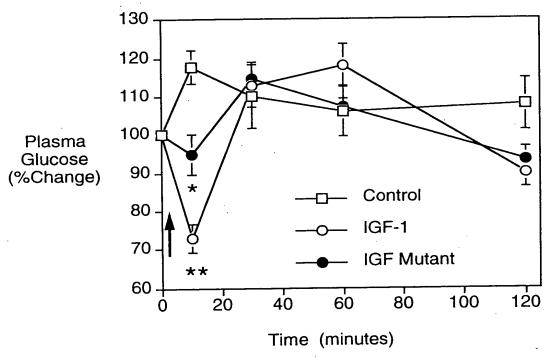


FIG. 10B

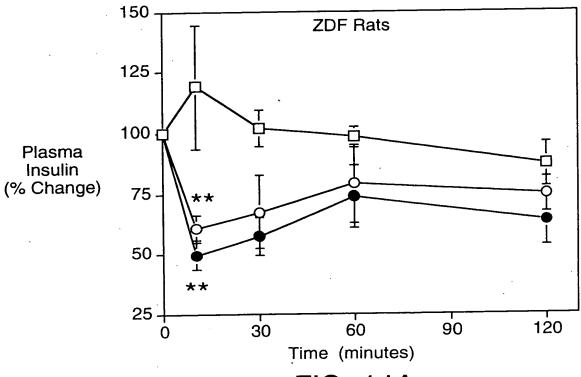


FIG. 11A

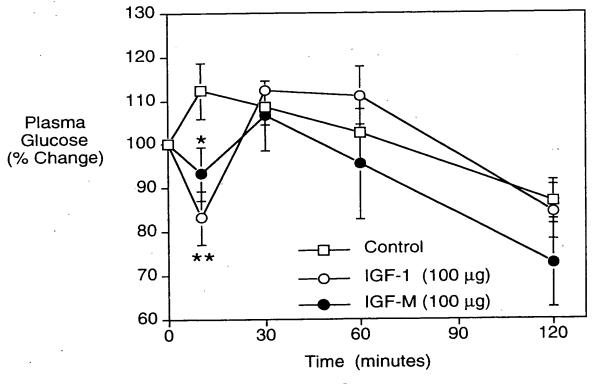


FIG. 11B

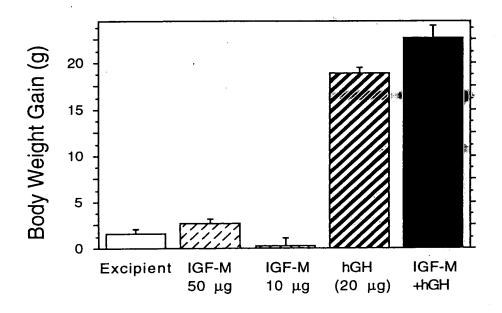


FIG. 12

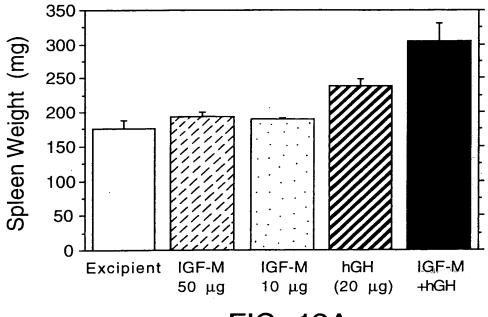


FIG. 13A

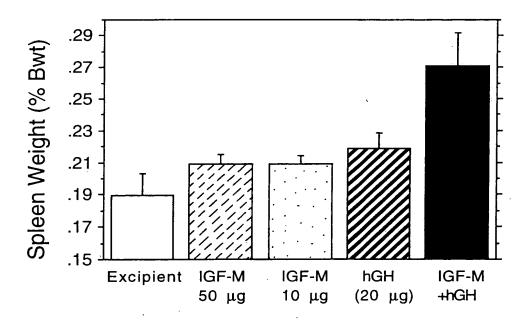
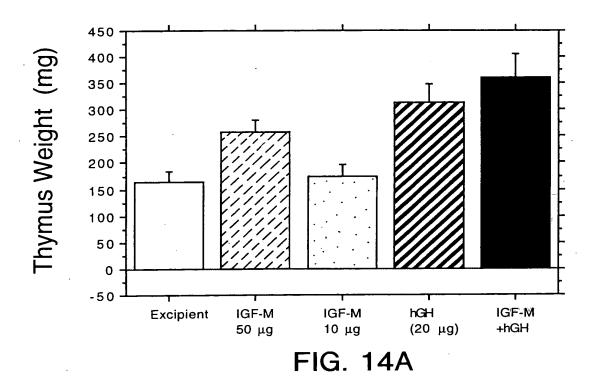
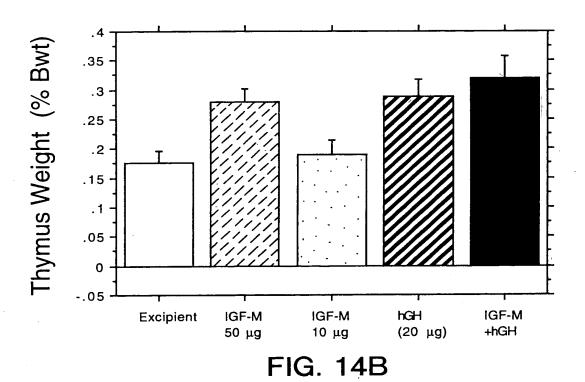


FIG. 13B





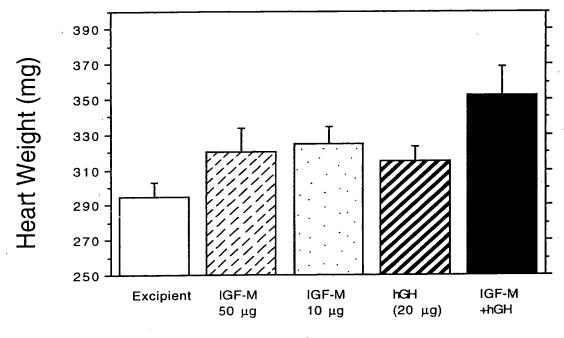


FIG. 15A

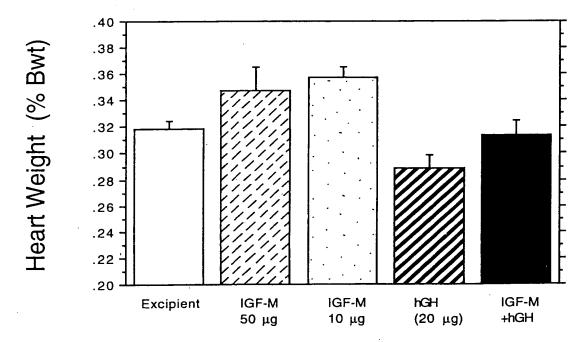


FIG. 15B

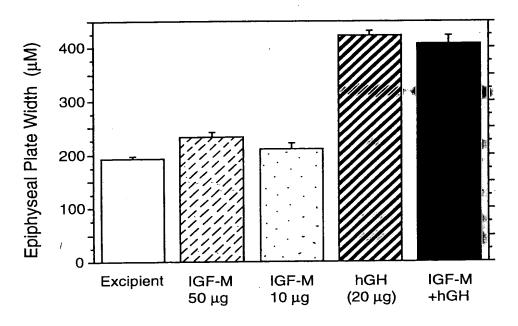


FIG. 16

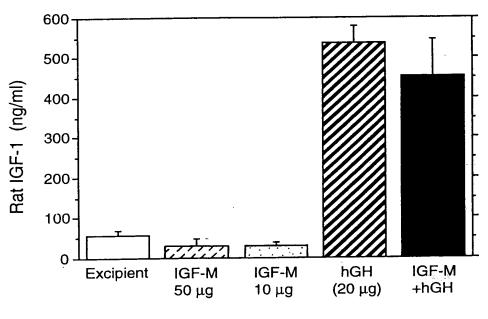


FIG. 17A

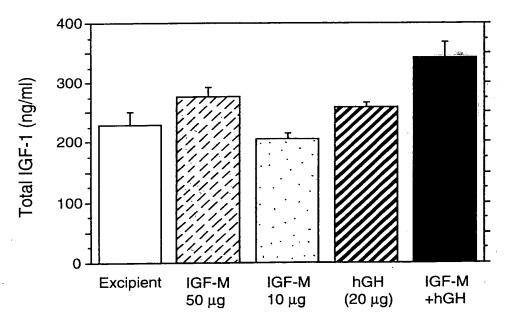


FIG. 17B

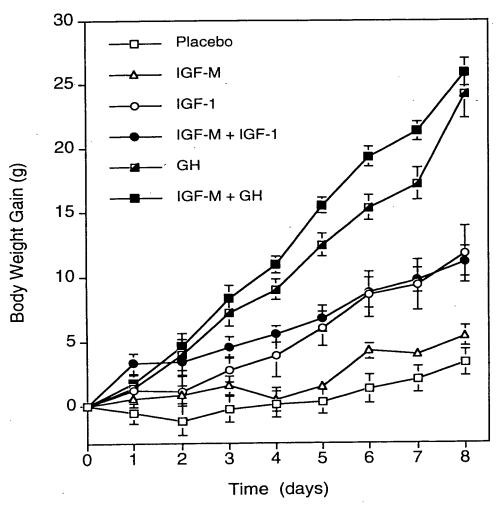


FIG. 18

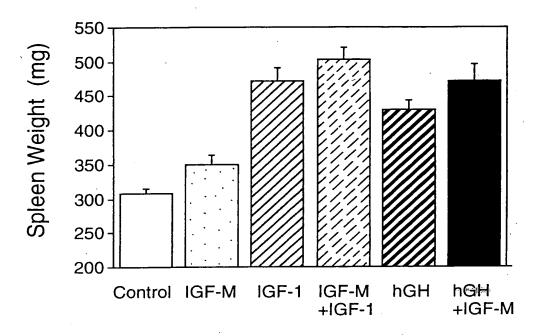


FIG. 19A

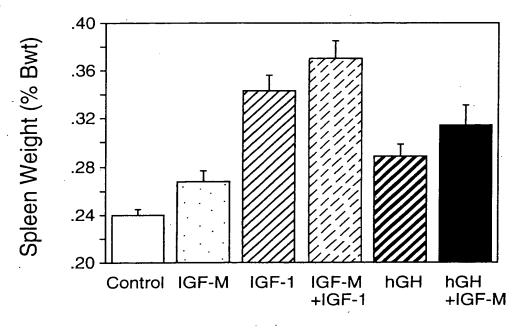
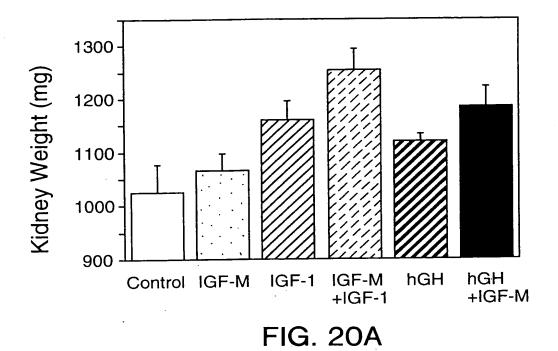
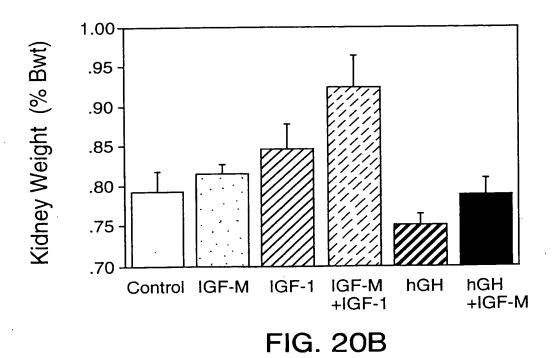


FIG. 19B





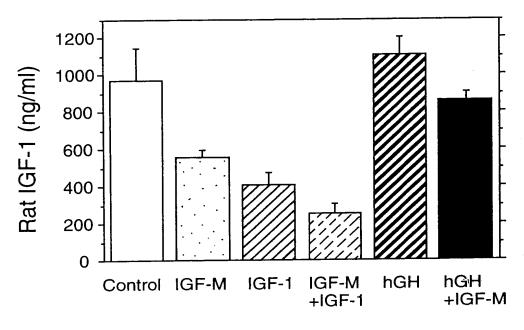


FIG. 21A

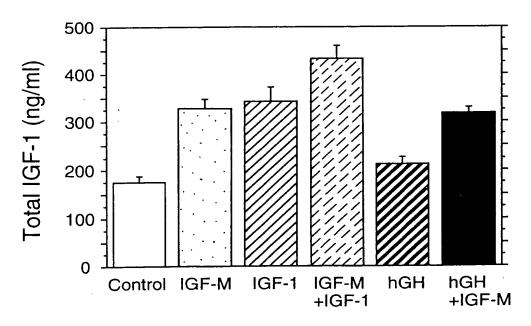
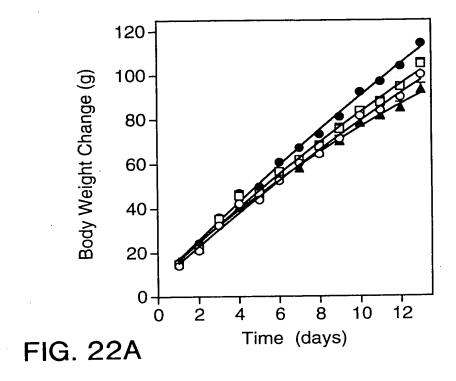
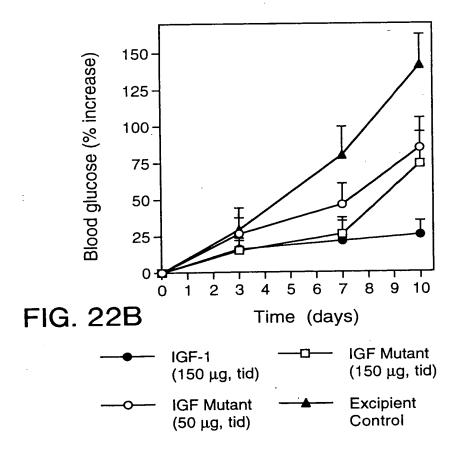


FIG. 21B





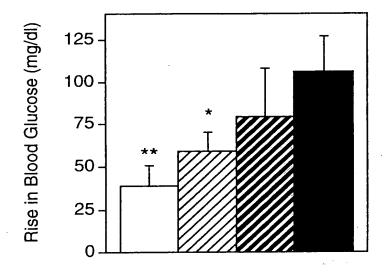
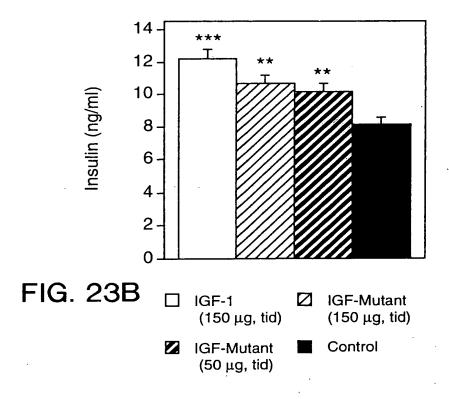


FIG. 23A



plasmid t4.g8 length: 5140 (circular)

- CTTAAGTIGA AGAGGIAIGA AACCIAIICC IITAIGICIG IACITITIAG AGTAACGACI CAACAAIAAA IICGAACGGG ITITICIICI ICICAGCIIA GTTGTTATTT AAGCTTGCCC AAAAAGAAGA TCATTGCTGA AAATACAGAC ATGAAAAATC TTGGATAAGG TCTCCATACT GAATTCAACT
- CAGGTAGAGG CTTGACACAC GCGTCCATCT TCGAAACCTC TAATAGCAGT GACGTTACGA AGCGTTATAC CGCGTTTTAC TGGTTGTCGC CAACTAACTA GTCCATCTCC GTTGATTGAT ACCAACAGCG GCGCAAAATG CTGCAATGCT TCGCAATATG AGCTTTGGAG ATTATCGTCA GAACTGTGTG CGCAGGTAGA 101
- CCCGCGACAT GCTCCATTIC GGGCTACGGT CGTAAGGACT GCTGCTATGC CTCGACGACG CGCTAATGCA TTTCTTCAAT AACTTCGTAG GAGCAGTCAT CTCGTCAGTA GCATICCIGA CGACGAIACG GAGCIGCIGC GCGAITACGI AAAGAAGITA IIGAAGCAIC GGGCGCTGIA CGAGGIAAAG CCCGAIGCCA 201
- AAAAGITAAT CITITCAACA GCIGICATAA AGIIGICACG GCCGAGACII AIAGICGCII IGITITIAIT ITITAAIGIA ITIGIAACIA GIACGCAAGI TITICAATTA GAAAAGITGI CGACAGIATI ICAACAGIGC CGGCICIGAA IAICAGCGAA ACAAAAAIAA AAAAITACAI AAACAITGAI CAIGCGIICA 301
- TCACGTAAAA AGGGTATCTA GAGGTTGAGG TGATTTTATG AAAAAGAATA TCGCATTTCT TCTTGCATCT ATGTTCGTTT TTTCTATTGC TACAAATGCC AGTECATITI TCCCATAGAT CTCCAACTCC ACTAAAATAC TTTTTCTTAT AGCGTAAAGA AGAACGTAGA TACAAGCAAA AAAGATAACG ATGTTTACGG 401
- SerG lyThrAlaMe tAlaAspPro AsnArgPheA rgGlyLysAs pLeuAlaGly SerProGlyG lyGlySerGl yGlyGlyAla GluGlyAspAsp CTCCCACTGC GAGGGTGACG 501 TATGCATCTG GTACCGCCAT GGCTGATCCG AACCGTTTCC GCGGTAAAGA TCTGGCAGGT TCACCAGGTG GAGGATCCGG AGGAGGCGCC TCCTCCGCGG CATGGCGGTA CCGACTAGGC TTGGCAAAGG CGCCATTTCT AGACCGTCCA AGTGGTCCAC CTCCTAGGCC ATACGTAGAC
- ProAlaLy sAlaAlaPhe AsnSerLeuG lnAlaSerAl aThrGluTyr IleGlyTyrA laTrpAlaMe tValValVal IleValGlyA laThrIleGly GTTGATAGCC CAACTATCGG 601 ATCCCGCAAA AGCGGCCTTT AACTCCCTGC AAGCCTCAGC GACCGAATAT ATCGGTTATG CGTGGGCGAT GGTTGTTGTC ATTGTCGGCG CCAACAACAG TAACAGCCGC TIGAGGGACG ITCGGAGICG CIGGCITAIA TAGCCAAIAC GCACCCGCIA TCGCCGGAAA TAGGGCGTTT 33
- TCGTTCGACT ATTTGGCTAT GTTAATTTCC GAGGAAAACC TCGGAAAAAA AAACCTCTAA AAGTTGCACT TTCAACGTGA 701 TAICAAGCIG TITAAGAAAI ICACCICGAA AGCAAGCIGA TAAACCGAIA CAAITAAAGG CICCIITIGG AGCCITITIT ITIGGAGAIT AGTGGAGCTT AAATTCTTTA ATAGTTCGAC
 - 66 IleLysLeu PheLysLysP heThrSerLy sAlaSer
- AAAATTCATT TITITAATAA TAAGCGITAA GGAAATCAAC AAGGAAAGAT AAGAGTGAGG CGACTTTGAC AACTTTCAAC AAATCGTTTT GGGGTATGTC TTTTAAGTAA CCCCATACAG TTTAGCAAAA TICICACICC GCIGAAACIG IIGAAAGIIG CCTTTAGTTG TTCCTTTCTA ATTCGCAATT AAAAATTATT 801
- ATGATTGCAG ACCTTTCTGC TGTTTTGAAA TCTAGCAATG CGATTGATAC TCCCAACAGA CACCTTACGA TGTCCGCAAC ATCAAACATG ACCACTGCTT TAGTTTGTAC ACAGGCGTTG GTGGAATGCT TACTAACGTC TGGAAAGACG ACAAAACTTT AGATCGTTAC GCTAACTATG AGGGTTGTCT 901
- 1001 ACTCAGIGIC TAGCTAGAGI GGCGGIGGCI CIGGIICCGG IGAIITIGAI TAIGAAAAGA IGGCAAACGC TAAIAAGGG GCIAIGACCG AAAAIGCCGA CGATACTGGC TTTTACGGCT ACCGTTTGCG ATTATTCCCC TGAGTCACAG ATCGATCTCA CCGCCACCGA GACCAAGGCC ACTAAAACTA ATACTTTTCT

FIG. 24A

1101 TGAAAACGCG CTACAGTCTG ACGCTAAAGG CAAACTTGAT TCTGTCGCTA CTGATTACGG TGCTGCTATC GATGGTTTCA TTGGTGACGT TTCCGGCCTT	ACTITIGGG GAIGICAGAC IGCGAITICC GITIGAACIA AGACAGCGAI GACIAAIGCC ACGACGAIAG CIACCAAAGI AACCACIGCA AAGGCCGGAA
GATGGTTTCA	CTACCAAAGT
TGCTGCTATC	ACGACGATAG
CTGATTACGG	GACTAATGCC
TCTGTCGCTA	AGACAGCGAT
CAAACTTGAT	GTTTGAACTA
ACGCTAAAGG	TGCGATTTCC
CTACAGICIG	GATGTCAGAC
TGAAAACGCG	ACTTTTGCGC
101	

- AATTTCCGTC CGATTACCAT TACCACGATG ACCACTAAAA CGACCGAGAT TAAGGGTTTA CCGAGTTCAG CCACTGCCAC TATTAAGTGG AAATTACTTA TTAAAGGCAG TTTAATGAAT ATAATTCACC GGTGACGGTG GGCTCAAGTC GCTGGCTCTA ATTCCCAAAT TGGTGATTTT ATGGTGCTAC GCTAATGGTA 1201
- TTTATTGAA AAATAAACTT CTAACACTGT GATTGTGACA TAAAAGATAA ATTTTCTATT GTTAGCCAAC TTACAGCGGG AAAACAGAAA TCGCGACCAT TTGGTATACT AACCATATGA AGCGCTGGTA TTTTGTCTTT AATGTCGCCC CAATCGGTTG TTATAAATGG AAGGGAGGGA TICCCICCL AATATTTACC 1301
- TATGACGCAT TATTCCTCAG AATTAGTACG TTAATCATGC ATAAGGAGTC ATACTGCGTA GITIGCIAAC TAAGGCACCA CAGAAACGCA AAGAAAATAT ACAACGGTGG AAATACATAC ATAAAAGATG CAAACGATTG TATTTTCTAC TGTTGCCACC TTTATGTATG TTCTTTTATA GTCTTTGCGT ATTCCGTGGT 1401
- GTAAAAAGGC CGGTCCTTGG CATTTTTCCG GCCAGGAACC CCAGCAAAAG CICGITIICC GGICGITIIC GAGCAAAAGG TAACGCAGGA AAGAACATGT TGAGTITCCG CCATTATGCC AATAGGTGTC TTAGTCCCCT ATTGCGTCCT TTCTTGTACA AATCAGGGGA TTATCCACAG GGTAATACGG ACTCAAAGGC 3201
- SCECAACGAC CECAAAAAGG TATCCGAGGC GGGGGGACTG CTCGTAGTGT TTTTAGCTGC GAGTTCAGTC TCCACCGCTT TGGGCTGTCC TGATATTTCT ACTATAAAGA CGCGTTGCTG GCGTTTTTCC ATAGGCTCCG CCCCCTGAC GAGCATCACA AAAATCGACG CTCAAGTCAG AGGTGGCGAA ACCCGACAGG 3301
- GGAAGCGTGG ATGGTCCGCA AAGGGGGACC TTCGAGGGAG CACGCGAGAG GACAAGGCTG GGACGGCGAA TGGCCTATGG ACAGGCGGAA AGAGGGAAGC CCTTCGCACC TCTCCCTTCG TGTCCGCCTT TICCCCCTGG AAGCICCCTC GIGGGCICTC CIGITCCGAC CCTGCCGCTT ACCGGATACC TACCAGGCGT 3401
- CCGACCGCTG GGCTGGCGAC CCCGTTCAGC SCGAAAGAGT ATCGAGTGCG ACATCCATAG AGTCAAGCCA CATCCAGCAA GCGAGGTTCG ACCCGACACA CGTGCTTGGG GGGCAAGTCG GCACGAACCC TAGCTCACGC TGTAGGTATC TCAGTTCGGT GTAGGTCGTT CGCTCCAAGC TGGGCTGTGT CGCTTTCTCA 3501
- GGATTAGCAG AGCGAGGTAT TCGCTCCATA CCTAATCGTC CGCCTTATCC GGTAACTATC GTCTTGAGTC CAACCCGGTA AGACACGACT TATCGCCACT GGCAGCAGCC ACTGGTAACA TGACCATTGT CAGAACTCAG GTTGGGCCAT TCTGTGCTGA ATAGCGGTGA CCGTCGTCGG CCATTGATAG SCGGAATAGG 3601
- GTTACCTTCG GATGTCTCAA GAACTTCACC ACCGGATTGA TGCCGATGTG ATCTTCCTGT CATAAACCAT AGACGCGAGA CGACTTCGGT CAATGGAAGC GCTGAAGCCA CITGAAGIGG IGGCCTAACI ACGGCTACAC IAGAAGGACA GIAITIGGIA ICIGCGCTCI CTACAGAGTT CATCCGCCAC GTAGGCGGTG 3701
- AAAAAGGATC TTTTCCTAG ACGCCCAGAA CGTCGTCTAA TGCGCGTCTT GCAGCAGATT CITITICICA ACCATCGAGA ACTAGGCCGI ITGITIGGIG GCGACCAICG CCACCAAAAA AACAAACGII TTGTTTGCAA CGCTGGTAGC GGTGGTTTTT TGATCCGGCA AACAAACCAC TGGTAGCTCT GAAAAAGAGT 3801
- TTCCTAGAAG AAGGATCTTC CCTTTGATCT TITCTACGGG GTCTGACGCT CAGTGGAACG AAAACTCACG TTAAGGGATT TTGGTCATGA GATTATCAAA GGAAACTAGA AAAGATGCCC CAGACTGCGA GTCACCTTGC TTTTGAGTGC AATTCCCTAA AACCAGTACT CTAATAGTTT AGTICTICIA TCAAGAAGAT 3901
- TITAAAICAA ICIAAAGIAI AIAIGAGIAA ACIIGGICIG ACAGIIACCA AIGCIIAAIC AGIGAGGCAC TGAACCAGAC TGTCAATGGT TACGAATTAG TCACTCCGTG IGGATCTAGG AAAATTTAAT TTTTACTTCA AAATTTAGTT AGATTTCATA TATACTCATT TITIAAATTA AAAATGAAGT ACCTAGATCC 4001

FIG. 24B

CAT CCATAGTIGC CIGACTCCCC GICGIGIAGA TAACTACGAI ACGGGAGGGC ITACCAICIG GCCCCAGIGC	GATAGAGTCG CTAGACAGAT AAAGCAAGTA GGTATCAACG GACTGAGGGG CAGCACATCT ATTGATGCTA TGCCCTCCCG AATGGTAGAC CGGGGTCACG
TTACCATCTG	AATGGTAGAC
ACGGGAGGGC	TGCCCTCCCG
TAACTACGAT	ATTGATGCTA
GTCGTGTAGA	CAGCACATCT
CTGACTCCCC	GACTGAGGGG
CCATAGTTGC	GGTATCAACG
TTTCGTTCAT	AAAGCAAGTA
GATCTGTCTA	CTAGACAGAT
4101 CTATCTCAGC GATCTGTCTA TTTCGTTCAT	GATAGAGTCG
4101	

- ACGITACIAI GGCGCICIGG GIGCGAGIGG CCGAGGICIA AAIAGICGII AIIIGGICGG ICGGCCIICC CGGCICGCGI CIICACCAGG ACGIIGAAAI GAAGTGGTCC TTATCAGCAA TAAACCAGCC AGCCGGAAGG GCCGAGCGCA GGCTCCAGAT 4201 IGCAATGATA CCGCGAGACC CACGCTCACC
- CGTCCGTAGC GCAGGCATCG CGTTGCAACA ACGGTAACGA TGCCATTGCT GCAACGTTGT AATAGTTTGC TTATCAAACG TTCGCCAGTT GCCCTTCGAT CTCATTCATC AAGCGGTCAA GAGTAAGTAG TCCAGTCTAT TAATTGTTGC CGGGAAGCTA AGGTCAGATA ATTAACAACG TCCGCCTCCA AGGCGGAGGT 4301
- TTCGCCAATC TTGTGCAAAA TAGGGGGTAC AACACGTTTT ATCCCCCATG GAGTTACATG CTCAATGTAC CGATCAAGGC GCTAGTTCCG CTCGTCGTTT GGTATGGCTT CATTCAGCTC CGGTTCCCAA CCATACCGAA GTAAGTCGAG GCCAAGGGTT GAGCAGCAAA ACCACAGTGC TGGTGTCACG 4401
- CATGCCATCC GTACGGTAGG CTGCATAATT CTCTTACTGT GAGGAAGCCA GGAGGCTAGC AACAGTCTTC ATTCAACCGG CGTCACAATA GTGAGTACCA ATACCGTCGT GACGTATTAA GAGAATGACA ITGICAGAAG TAAGIIGGCC GCAGIGIIAI CACICAIGGI TAIGGCAGCA CCTCCGATCG CICCIICGGI 4501
- ACACGGGATA CATICIACGA AAAGACACIG ACCACICAIG AGIIGGIICA GIAAGACICI IAICACAIAC GCGGCGGGCI CAACGAGAAC GGGCCGCAGI IGIGCCCIAI CCCGGCGTCA GTTGCTCTTG CATTCTGAGA ATAGTGTATG CGGCGACCGA TGGTGAGTAC TCAACCAAGT TTTĆTGTGAC GTAAGATGCT 4601
- GATCCAGTTC CTAGGTCAAG CCGCTGTTGA TATGGCGCGG TGTATCGTCT TGAAATTTTC ACGAGTAGTA ACCTTTTGCA AGAAGCCCCG CTTTTGAGAG TTCCTAGAAT GGCGACAACT AAGGATCTTA GAAAACTCTC ACTITAAAAG IGCICAICAI IGGAAAACGI ICIICGGGGC ACATAGCAGA ATACCGCGCC 4701
- TGAGCACGIG GGITGACTAG AAGTCGIAGA AAATGAAAGI GGICGCAAAG ACCCACTCGI ITTIGICCIT CCGITITIACG GCGITITITC CGCAAAAAAG GGCAAAATGC AAAACAGGAA CCAGCGTTTC TGGGTGAGCA TTTACTTTCA ACTCGTGCAC CCAACTGATC TTCAGCATCT CTACATTGGG GATGTAACCC 4801
- GGATACATAT CCTATGTATA GGAATAAGGG CGACACGGAA ATGTTGAATA CTCATACTCT TCCTTTTTCA ATATTATTGA AGCATTTATC AGGGTTATTG TCTCATGAGC CCTTATTCC GCTGTGCCTT TACAACTTAT GAGTATGAGA AGGAAAAAGT TATAATAACT TCGTAAATAG TCCCAATAAC AGAGTACTCG GGAATAAGGG 4901
- TGACATTAAC CCCAAGGCGC GTGTAAAGGG GCTTTTCACG GTGGACTGCA GATTCTTTGG TAATAATAGT ACTGTAATTG GGGTTCCGCG CACATTTCCC CGAAAAGTGC CACCTGACGT CTAAGAAACC ATTATTATCA TIGAAIGIAI ITAGAAAAAI AAACAAAIAG AACTTACATA AATCTTTTTA TTTGTTTATC 5001
- 5101 CTATAAAAT AGGCGTATCA CGAGGCCCTT TCGTCTTCAA GATATTTTA TCCGCATAGT GCTCCGGGAA AGCAGAAGTT

FIG. 240

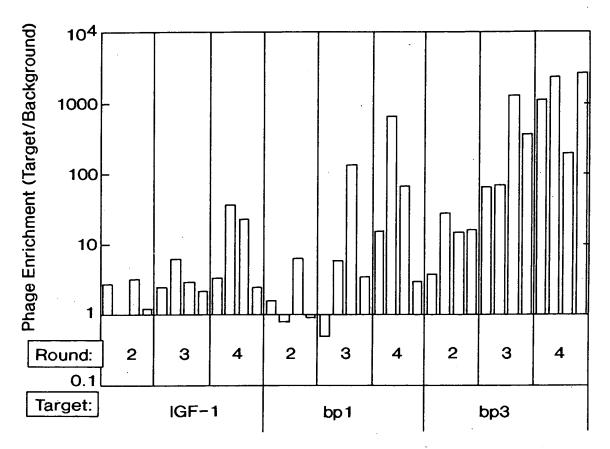


FIG. 25

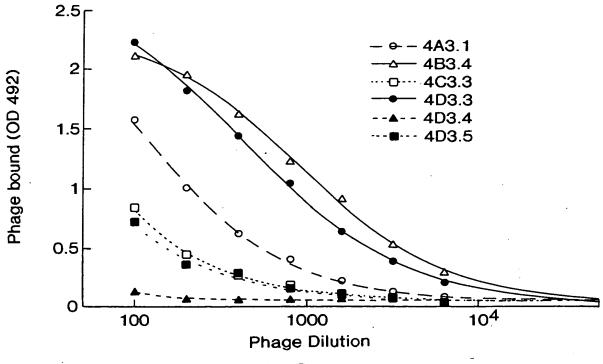
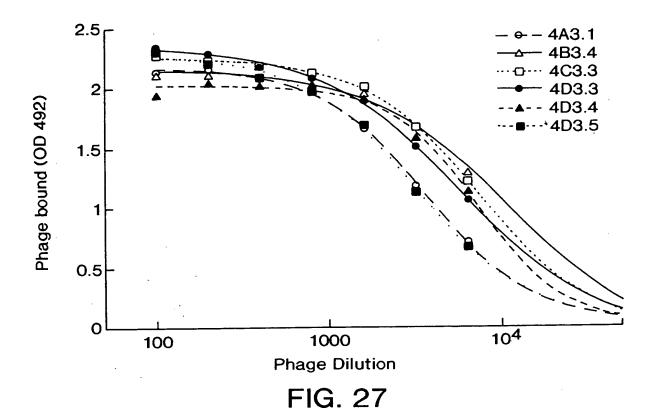
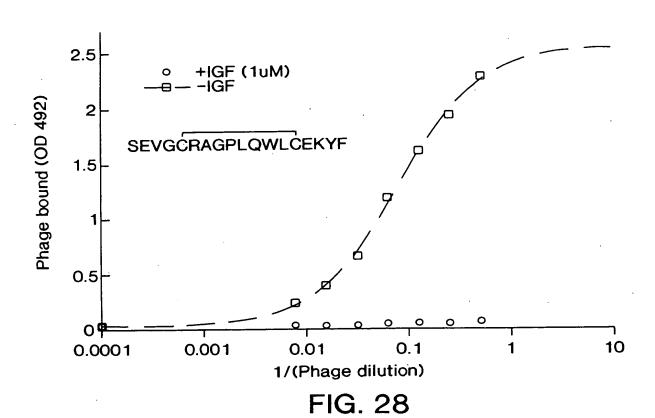
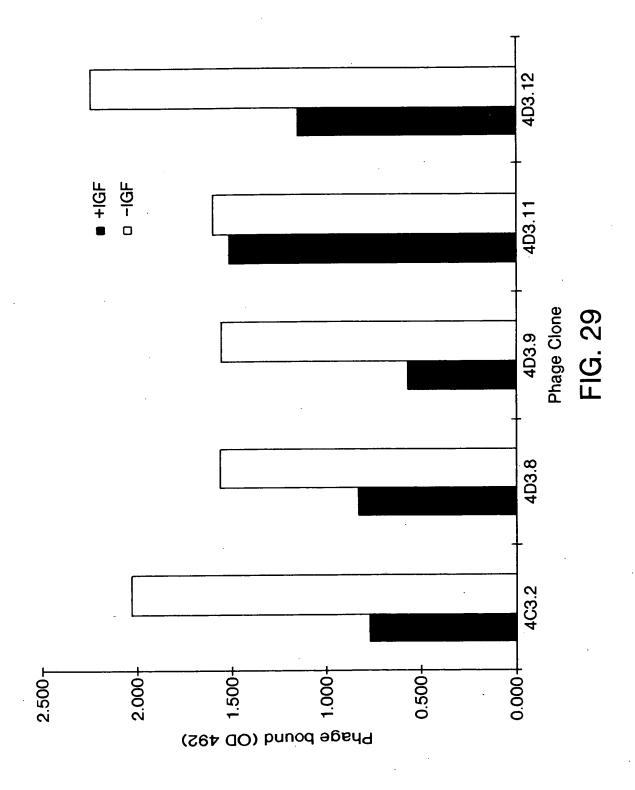
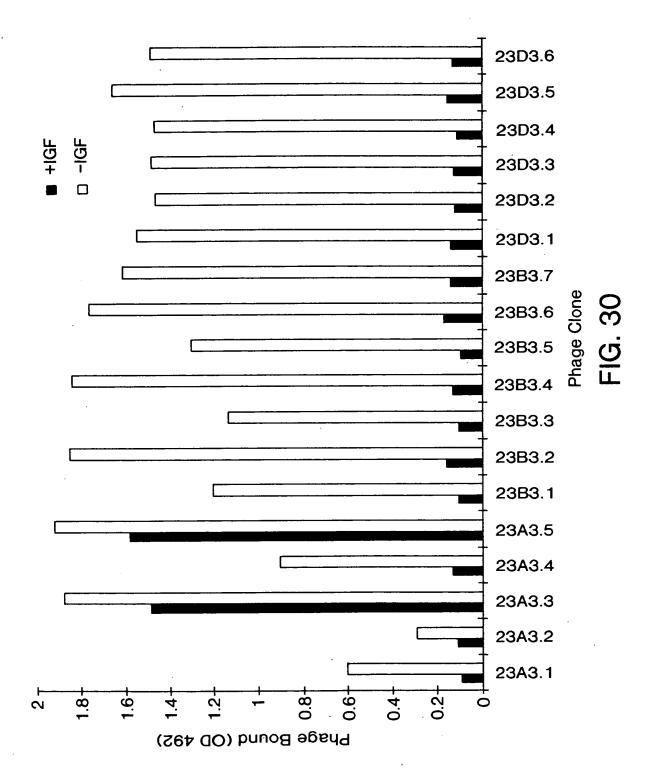


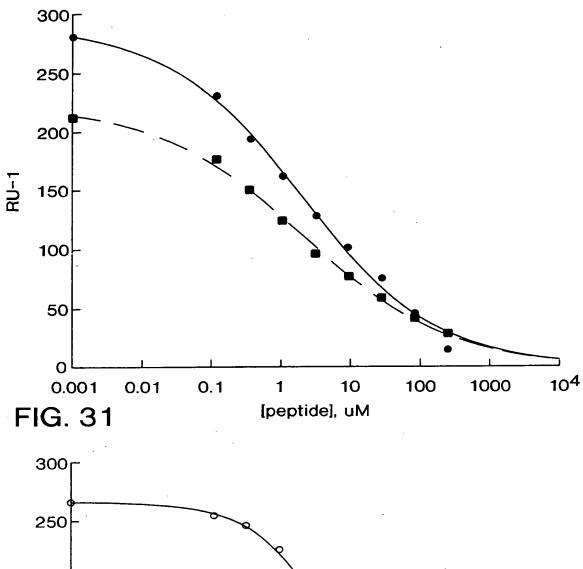
FIG. 26

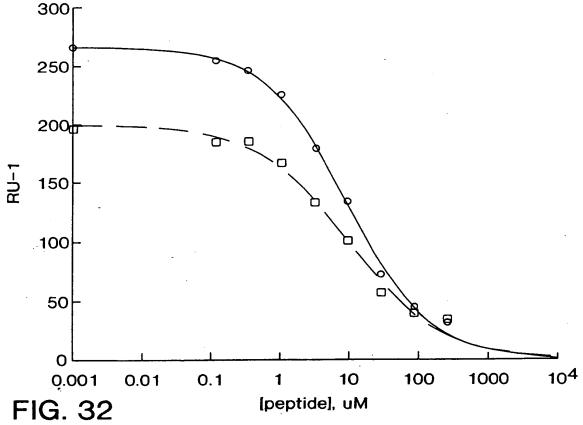


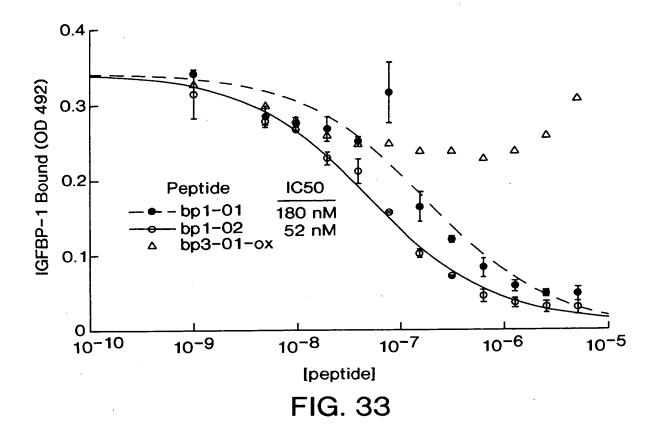


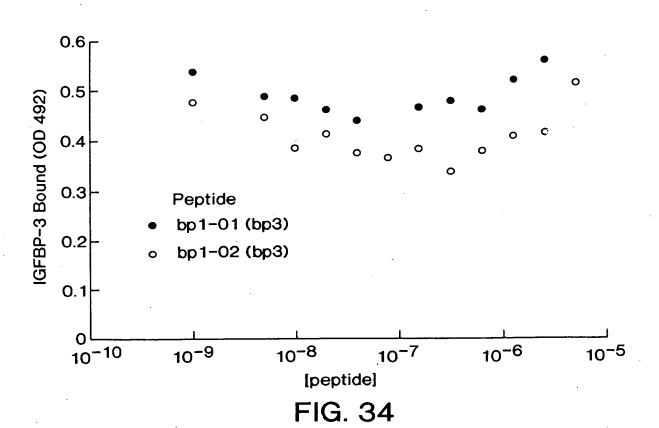


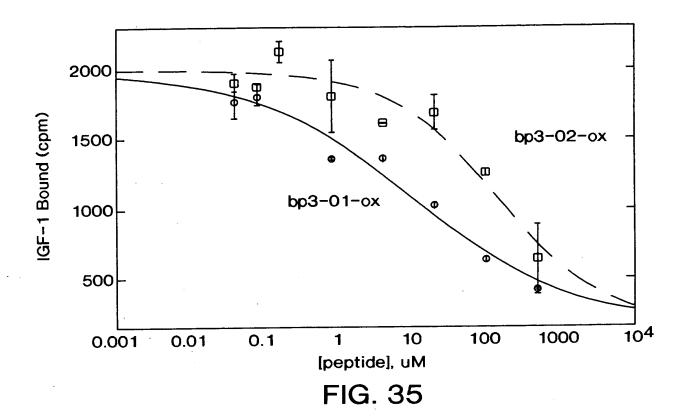


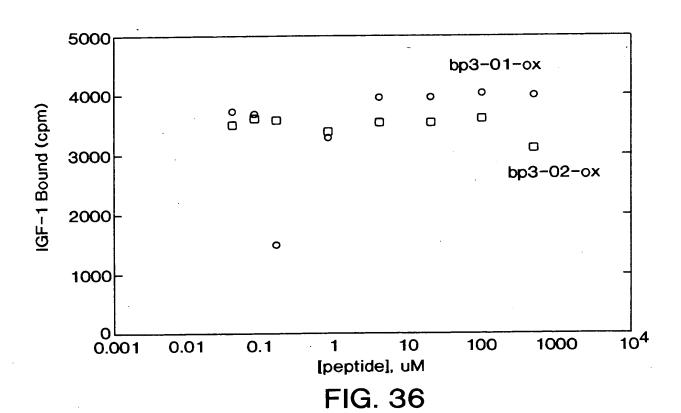


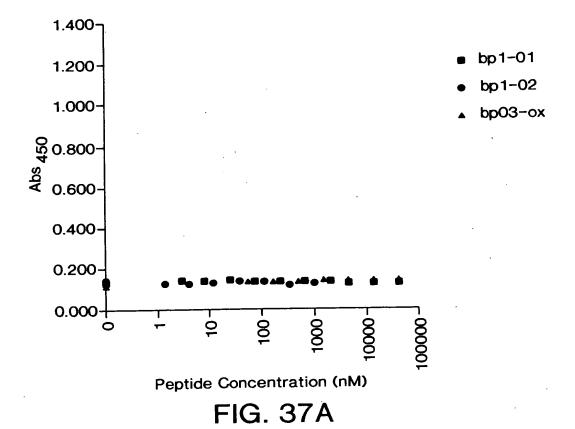












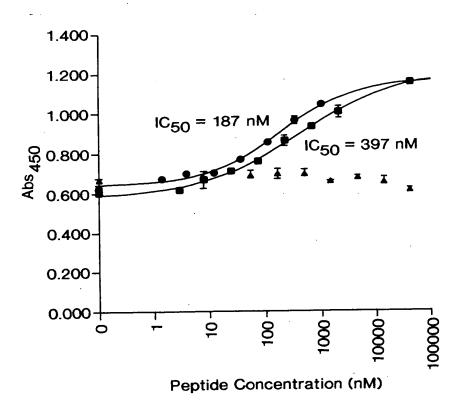


FIG. 37B

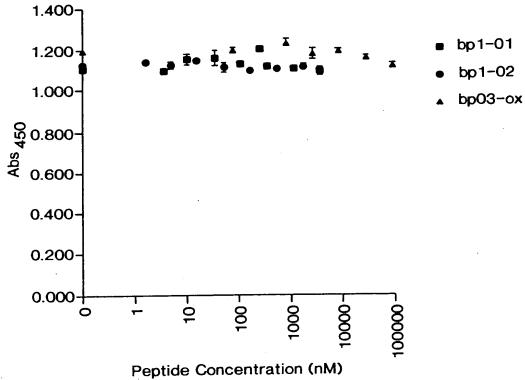
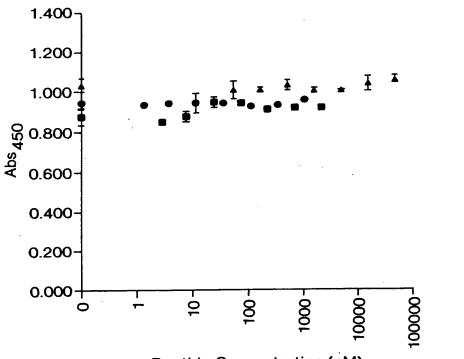
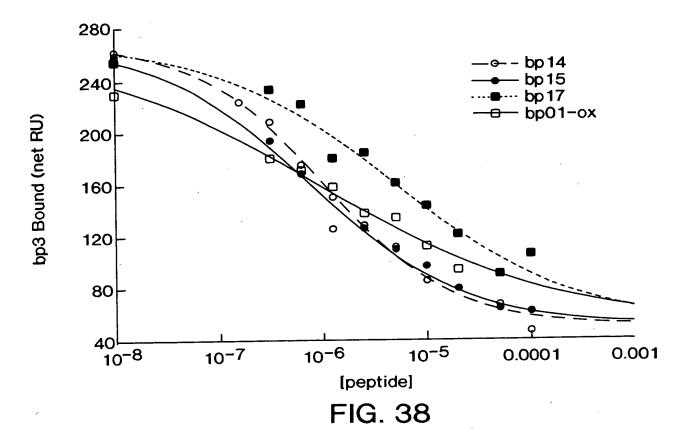


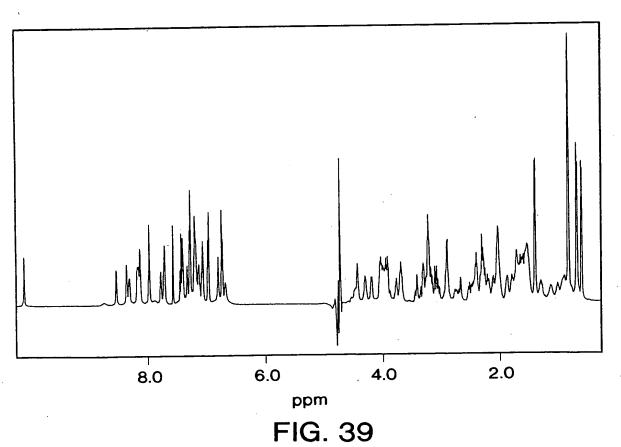
FIG. 37C



Peptide Concentration (nM)

FIG. 37D





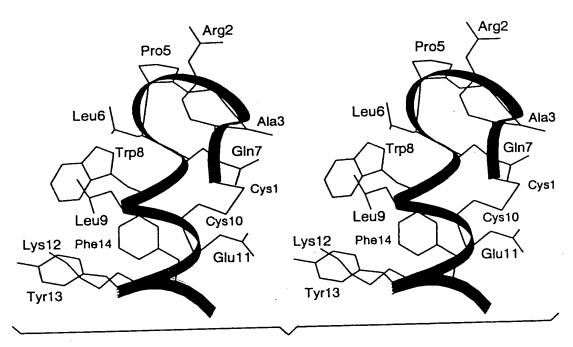


FIG. 40A

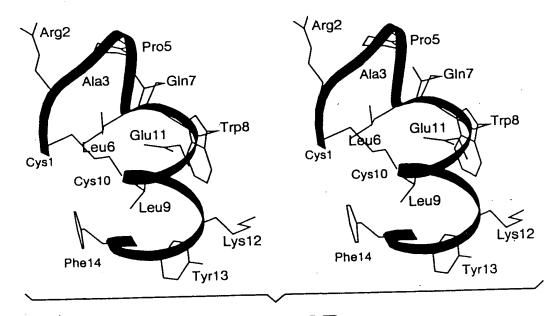


FIG. 40B

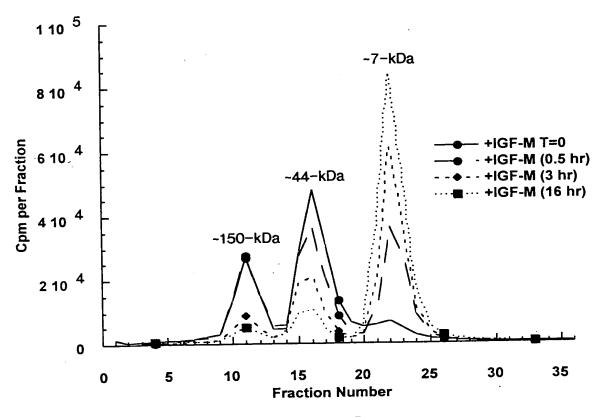
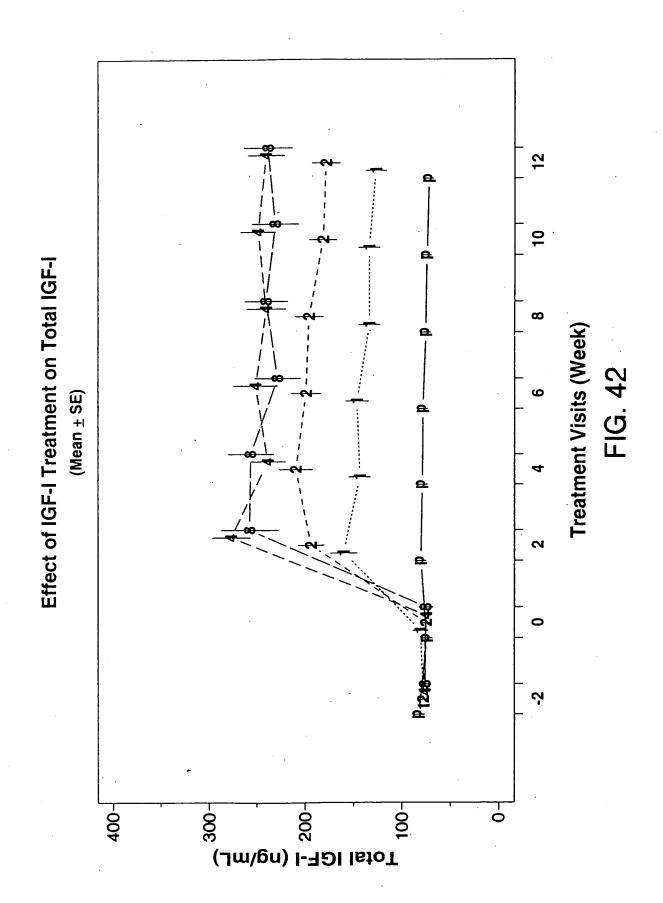
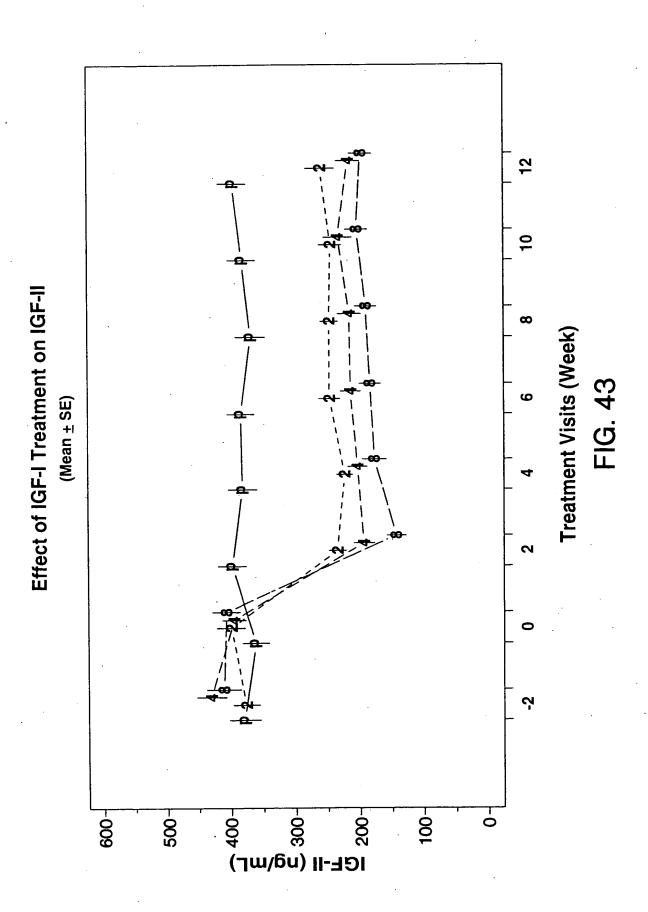


FIG. 41





Effect of IGF-I Treatment on IGFBP-3 Treatment Visits (Week) FIG. 44 (Mean ± SE) 5 9 -9 IGFBP-3 (mcg/mL)